

chain nodes :

11 18 19 20 21 22 23 24 25 26 27 28 34 35 36 37 38 39 40 41 42 43
44 45 46

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

chain bonds :

1-35 2-36 3-37 4-38 7-46 8-11 9-40 10-39 11-34 13-22 13-45 14-21 14-44 15-20
15-43 16-19 16-42 17-18 17-41 23-26 24-25 26-27 26-28

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15
15-16 16-17

exact/norm bonds :

5-7 6-10 7-8 7-46 8-9 8-11 9-10 11-34 12-13 12-17 13-14 13-22 14-15 14-21
15-16 15-20 16-17 16-19 23-26 24-25 26-27 26-28

exact bonds :

1-35 2-36 3-37 4-38 9-40 10-39 13-45 14-44 15-43 16-42 17-18 17-41

normalized bonds :

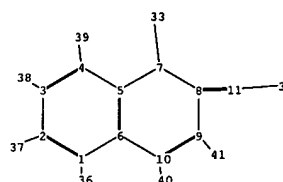
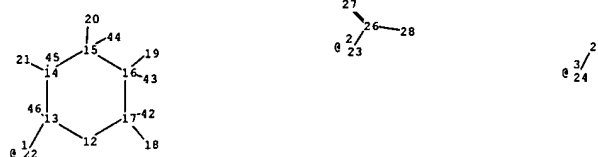
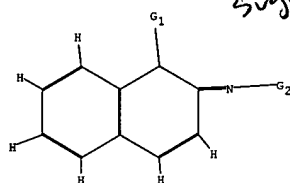
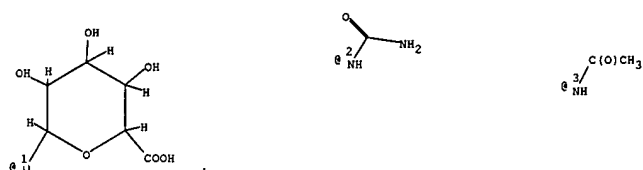
1-2 1-6 2-3 3-4 4-5 5-6

G1:O, [*1]

G2:OH, [*2], [*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 34:CLASS
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS 45:CLASS 46:CLASS



chain nodes :

11 18 19 20 21 22 23 24 25 26 27 28 33 35 36 37 38 39 40 41 42 43
44 45 46

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

chain bonds :

1-36 2-37 3-38 4-39 7-33 8-11 9-41 10-40 11-35 13-22 13-46 14-21 14-45 15-20
15-44 16-19 16-43 17-18 17-42 23-26 24-25 26-27 26-28

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15
15-16 16-17

exact/norm bonds :

5-7 6-10 7-8 7-33 8-9 8-11 9-10 11-35 12-13 12-17 13-14 13-22 14-15 14-21
15-16 15-20 16-17 16-19 23-26 24-25 26-27 26-28

exact bonds :

1-36 2-37 3-38 4-39 9-41 10-40 13-46 14-45 15-44 16-43 17-18 17-42

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O, [*1]

G2:OH, [*2], [*3]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 33:CLASS
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS 45:CLASS 46:CLASS

Uploading C:\Program Files\Stnexp\Queries\10051243a.str

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l3 sam

SAMPLE SEARCH INITIATED 15:25:05 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2029 TO ITERATE

49.3% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 37879 TO 43281

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s l3 full

FULL SEARCH INITIATED 15:25:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 42444 TO ITERATE

100.0% PROCESSED 42444 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

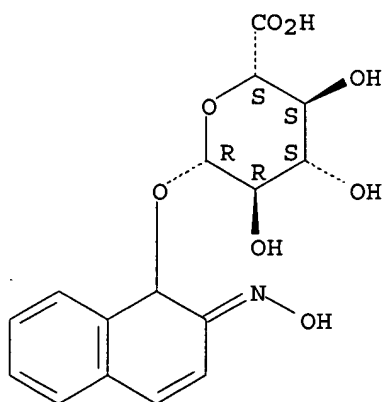
L5 6 SEA SSS FUL L3

=> d scan str

L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

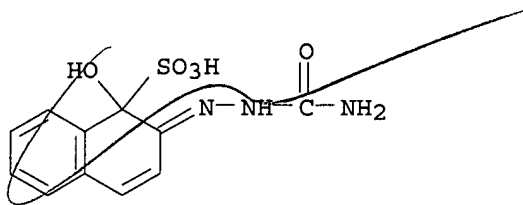
Absolute stereochemistry.

Double bond geometry unknown.



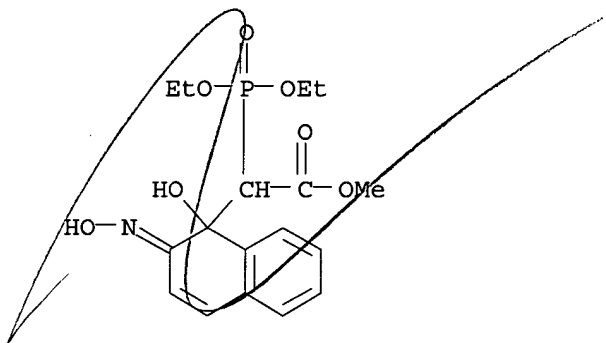
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

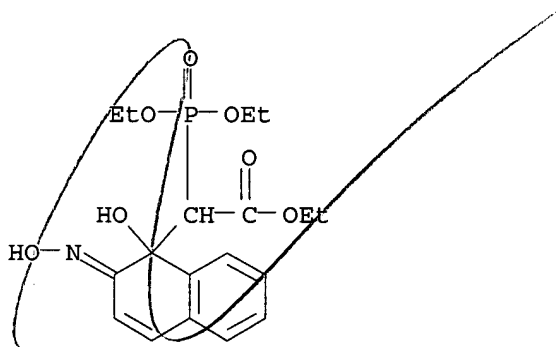


● Na

L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

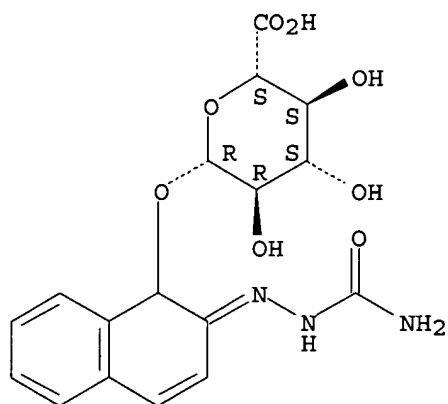


L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN



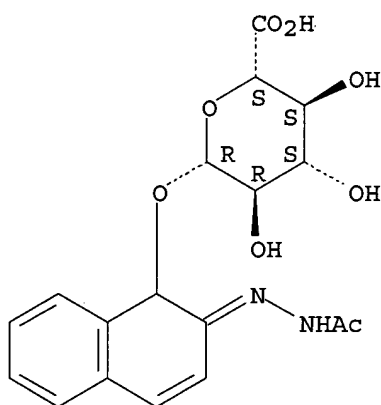
L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

Absolute stereochemistry.
Double bond geometry unknown.



L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

Absolute stereochemistry.
Double bond geometry unknown.



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
156.68	164.13

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
0.00	-0.66

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 15:26:59 ON 05 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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10/035753

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FILE COVERS 1907 - 5 Aug 2004 VOL 141 ISS 6
FILE LAST UPDATED: 3 Aug 2004 (20040803/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d hist

(FILE 'HOME' ENTERED AT 15:20:41 ON 05 AUG 2004)

FILE 'REGISTRY' ENTERED AT 15:20:54 ON 05 AUG 2004

L1 STRUCTURE UPLOADED
L2 1 S L1 SAM

FILE 'REGISTRY' ENTERED AT 15:24:38 ON 05 AUG 2004

L3 STRUCTURE UPLOADED
L4 0 S L3 SAM
L5 6 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:26:59 ON 05 AUG 2004

=> s l5 and glutamate

4 L5
91434 GLUTAMATE
1060 GLUTAMATES
91806 GLUTAMATE
(GLUTAMATE OR GLUTAMATES)
L6 2 L5 AND GLUTAMATE

=> s l5 and neuron

4 L5
75184 NEURON
127129 NEURONS
151052 NEURON
(NEURON OR NEURONS)
L7 0 L5 AND NEURON

=> s l5 and nmda

4 L5
22641 NMDA
2 NMDAS
22641 NMDA
(NMDA OR NMDAS)
L8 0 L5 AND NMDA

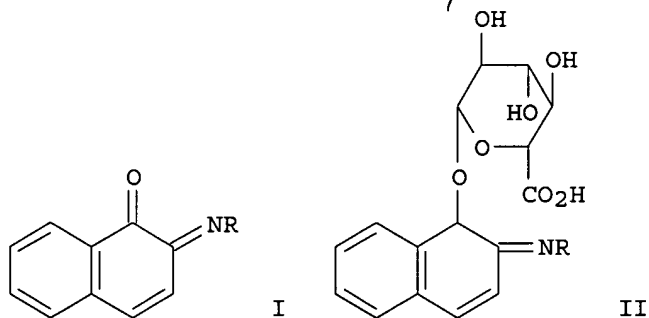
=> d fbib abs hitstr total l6

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:63831 CAPLUS
DN 134:125960
TI Use of β -naphthoquinone derivatives for making medicines having an

inhibiting effect on the release of **glutamate** by the brain
 IN Israel, Maurice; Molgo, Jordi; Bloy, Christian; Mattei, Cesar
 PA Centre National de la Recherche Scientifique (C.N.R.S.), Fr.
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001005404	A1	20010125	WO 2000-FR2120	20000721
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2796552	A1	20010126	FR 1999-9469	A 19990721
	EP 1196176	A1	20020417	FR 1999-9469	19990721
	EP 1196176	B1	20040204	EP 2000-958596	20000721
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				FR 1999-9469	A 19990721
				WO 2000-FR2120	W 20000721
	JP 2003504405	T2	20030204	JP 2001-510459	20000721
				FR 1999-9469	A 19990721
				WO 2000-FR2120	W 20000721
	AT 258798	E	20040215	AT 2000-958596	20000721
				FR 1999-9469	A 19990721
				WO 2000-FR2120	W 20000721
	US 2002115617	A1	20020822	US 2002-51243	20020122
				FR 1999-9469	A 19990721
				WO 2000-FR2120	A2 20000721

GI



AB β -Naphthoquinone derivs. are provided for making medicines with an inhibiting effect on the release of **glutamate** by the brain, the derivs. corresponding to I (R = NHCONH₂, NHCOCH₃, OH) and glucuronide derivs. II and their pharmaceutically acceptable acid addition salts. The invention is applicable to neurol. diseases.

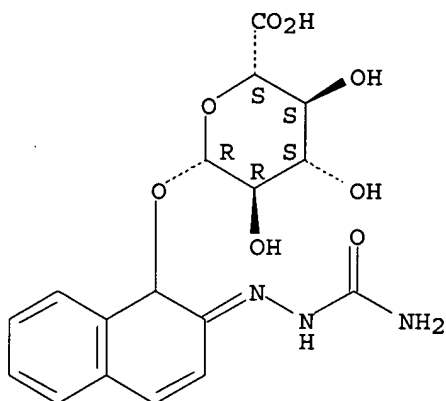
IT 250585-74-1 321546-47-8 321546-48-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(β -naphthoquinone derivs. for inhibiting release of **glutamate** in brain)

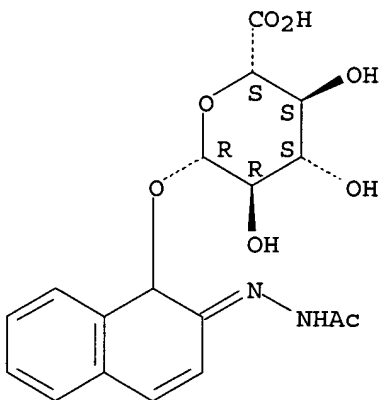
RN 250585-74-1 CAPLUS
CN β -D-Glucopyranosiduronic acid, 2-[(aminocarbonyl)hydrazono]-1,2-dihydro-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



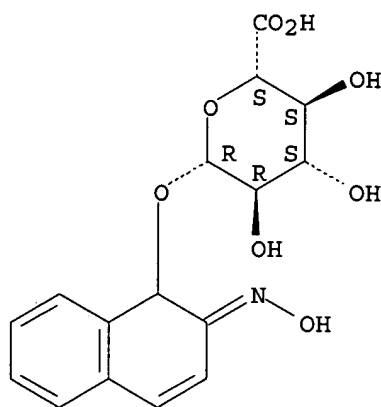
RN 321546-47-8 CAPLUS
CN β -D-Glucopyranosiduronic acid, 2-(acetylhydrazono)-1,2-dihydro-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 321546-48-9 CAPLUS
CN β -D-Glucopyranosiduronic acid, 1,2-dihydro-2-(hydroxyimino)-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:520285 CAPLUS

DN 131:346372

TI Naftazone reduces **glutamate** cerebrospinal fluid levels in rats
and **glutamate** release from mouse cerebellum synaptosomes

AU Mattei, C.; Molgo, J.; Joseph, X.; Israe, M.; Bloy, C.

CS Institute of Medical Sciences, Department of Biomedical Sciences,
University of Aberdeen, Aberdeen, UK

SO Neuroscience Letters (1999), 271(3), 183-186
CODEN: NELED5; ISSN: 0304-3940

PB Elsevier Science Ireland Ltd.

DT Journal

LA English

AB It is well known that an excessive release of **glutamate** in the
mammalian brain plays a major role in several neurol. diseases. Naftazone
(Etioven®) is a currently used vasoprotectant drug that is metabolized
in humans by reduction and glucuronidation. In the present study naftazone
was found to decrease **glutamate** levels in the cerebrospinal
fluid (CSF) of rats treated for 15 days, as determined by a chemiluminescent
glutamate assay reaction. Naftazone and its glucuronide derivative
also reduced resp. spontaneous and high K⁺-evoked **glutamate**
release from mouse cerebellum synaptosomes. It is likely that naftazone
and its glucuronide metabolite contribute in vivo to decrease
glutamate levels in the CSF through their inhibitory actions on
glutamate release.

IT 250585-74-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); BIOL (Biological study)
(naftazone reduces **glutamate** cerebrospinal fluid levels in
rats and **glutamate** release from mouse cerebellum
synaptosomes)

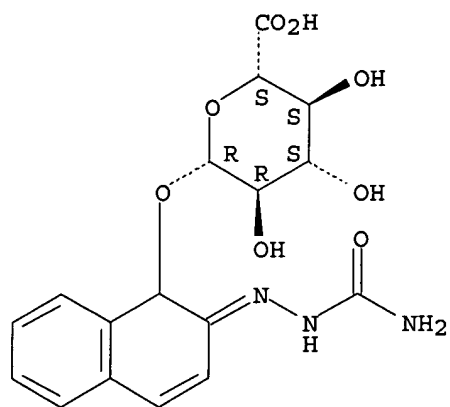
RN 250585-74-1 CAPLUS

CN β-D-Glucopyranosiduronic acid, 2-[(aminocarbonyl)hydrazono]-1,2-
dihydro-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

*See L Date per
Applicants Exhibit A*



RE.CNT 8

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 FILE 'REGISTRY' ENTERED AT 15:20:54 ON 05 AUG 2004
L2 STRUCTURE UPLOADED
1 S L1 SAM

L3 FILE 'REGISTRY' ENTERED AT 15:24:38 ON 05 AUG 2004
L4 STRUCTURE UPLOADED
L5 0 S L3 SAM
6 S L3 FULL *→ sugar derivative*

L6 FILE 'CAPLUS' ENTERED AT 15:26:59 ON 05 AUG 2004
L7 2 S L5 AND GLUTAMATE
L8 0 S L5 AND NEURON
L9 0 S L5 AND NMDA
STRUCTURE UPLOADED
S L9

L10 FILE 'REGISTRY' ENTERED AT 15:30:00 ON 05 AUG 2004
0 S L9 SAM

L11 FILE 'CAPLUS' ENTERED AT 15:30:00 ON 05 AUG 2004
0 S L10 SAM

FILE 'REGISTRY' ENTERED AT 15:30:18 ON 05 AUG 2004

=> s l9 full

FULL SEARCH INITIATED 15:30:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 134 TO ITERATE

100.0% PROCESSED 134 ITERATIONS
SEARCH TIME: 00.00.01

L12 0 SEA SSS FUL L9 *→ no sugar (0)*

0 ANSWERS